

## LOAD CELLS

\* C6 on request

| Model                         | AG                   | AXL - AXH        | AK                   | F60X            | SK30X                | ZA30X            | R10X            |
|-------------------------------|----------------------|------------------|----------------------|-----------------|----------------------|------------------|-----------------|
| Type                          | Single point         |                  | Bending beam         |                 | Tension              | Compression      |                 |
| Rated load capacity (C.N.)    | 1 kg ... 100 kg      | 10 kg ... 500 kg | 6 kg ... 300 kg      | 5 kg ... 5 t    | 300 kg ... 5 t       | 500 kg ... 7.5 t | 1 t ... 100 t   |
| Accuracy class                | C3*                  | C3               | C3                   | C3*             | C3*                  | C3               | -               |
| Combined error (% C.N.)       | 0.017                | 0.017            | 0.017                | 0.017           | 0.017 / 0.008        | 0.017            | 0.05            |
| Construction                  | Aluminum             | Stainless steel  | Stainless steel      | Stainless steel | Stainless steel      | Stainless steel  | Stainless steel |
| Protection                    | Coated, IP65         | Sealed, IP69K    | Sealed, IP68         | Sealed, IP68    | Sealed, IP68         | Sealed, IP68     | Sealed, IP68    |
| Admissible platform size (mm) | 400 x 400            | up to 600 x 600  | up to 600 x 600      | -               | -                    | -                | -               |
| Certifications                | OIML, NTEP, ATEX, FM | OIML, ATEX       | OIML, NTEP, ATEX, FM | OIML, ATEX, FM  | OIML, NTEP, ATEX, FM | OIML, ATEX       | ATEX, FM        |

## ELECTRONICS

● : Standard - ○ : Optional

| Modèle                       | AXD                    | CPJ                               | eNod3-Din              | eNod3-Box              | eNod3-JB4              | eNod4-Din                          |
|------------------------------|------------------------|-----------------------------------|------------------------|------------------------|------------------------|------------------------------------|
| Type                         | Digital Load Cells     | Weighing controllers/transmitters |                        |                        |                        |                                    |
| Rated load capacity (C.N.)   | 15 kg ... 75 kg        | -                                 | -                      | -                      | -                      | -                                  |
| Accuracy class               | 3 000 d                | 0.05 %                            | 0.005 %                | 0.005 %                | 0.005 %                | 0.005 %                            |
| Internal resolution          | 24 bits                | -                                 | 24 bits                | 24 bits                | 24 bits                | 24 bits                            |
| Formatted resolution         | 500 000 pts            | -                                 | ±500 000 pts           | ±500 000 pts           | ±500 000 pts           | ±500 000 pts                       |
| Max. measuring speed         | 6.25 ... 1600 meas./s. | -                                 | 6.25 ... 1600 meas./s. | 6.25 ... 1600 meas./s. | 6.25 ... 1600 meas./s. | 6.25 ... 1600 meas./s.             |
| Logic Input (I) / Output (O) | ● / ●<br>2 I / 2 O     | ○<br>2 O                          | ● / ●<br>2 I / 2 O     | ● / ●<br>2 I / 2 O     | ● / ●<br>2 I / 2 O     | ● / ●<br>2 I / 4 O                 |
| Analog output                | -                      | 0 - 10 V<br>4 - 20 mA             | -                      | -                      | -                      | -                                  |
| Communication                | RS485/<br>CANbus       | -                                 | RS232/RS485/<br>CANbus | RS232/RS485/<br>CANbus | RS232/RS485/<br>CANbus | USB/RS485/<br>CANbus               |
| Construction                 | Stainless steel        | ABS housing                       | ABS housing            | Aluminum box           | Aluminum box           | Din Rail Box                       |
| Protocols                    | MODBUS<br>CANopen®     | -                                 | MODBUS<br>CANopen®     | MODBUS<br>CANopen®     | MODBUS<br>CANopen®     | MODBUS/<br>PROFIBUS-DP<br>CANopen® |
| Protections                  | Sealed, IP69K          | -                                 | -                      | IP67                   | IP67                   | -                                  |
| Certifications               | -                      | -                                 | -                      | OIML 6 000 d           | -                      | -                                  |



# Dosing process

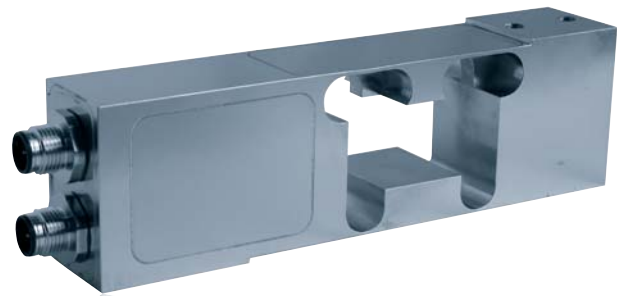
Filling, Batching control





# Dosing control... at high speed.

Scaime designs solutions offering speed, accuracy and functions adapted to the specific requirements of dynamic weighing. Scaime's load cells, electronics and software are a perfect match for filling and dosing applications.



## LOAD CELLS:

SCAIME's wide range of load cells allow customers to solve their specific requirements for high speed and accurate weighing.

AXD



### High speed digital load cell

With its stainless steel, IP69K, hermetically welded construction, the AXD-D load cell have been developped specifically for dynamic applications in hardest environment.

- Single point load cells
- Capacities from 15 to 75 kg
- Integrated eNod3 electronics with full dosing fonctions
- 2 digital inputs and 4 outputs
- CANOpen and MODBUS Communication

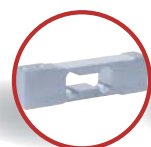
### A comprehensive range

- Single point, bending beam, shear beam tension and compression load cells
- Capacities from 200 g to 1 000 t
- Aluminum or stainless steel
- Protection level up to IP69K
- Numerous mounting possibilities

AXL



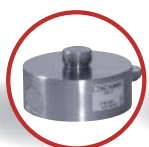
AG



F60X



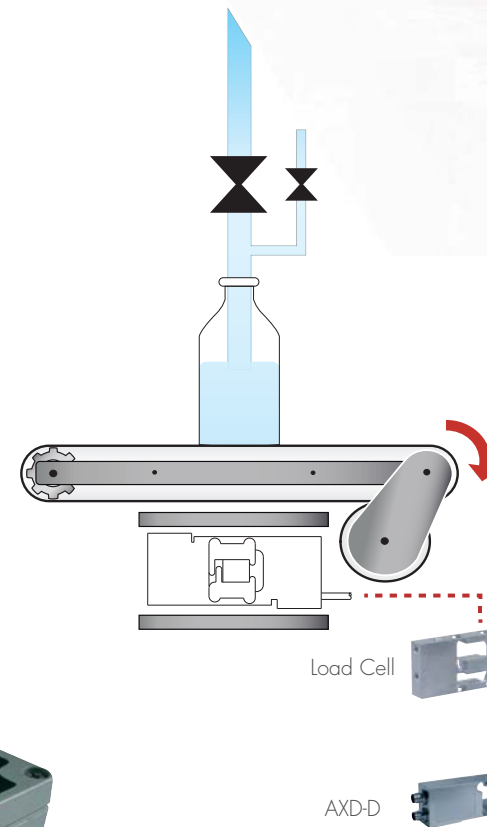
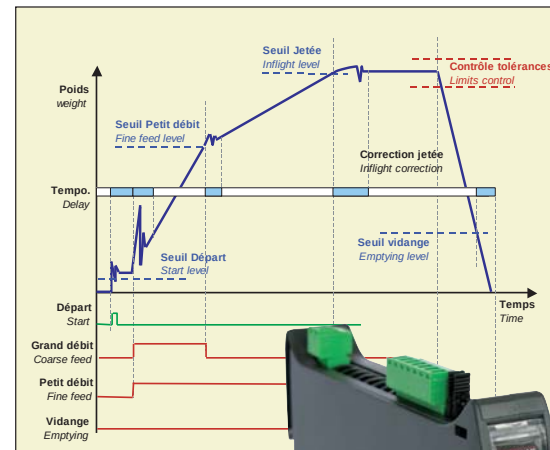
R10X



SK30X



ZA30X



## Designed for communication:

eNod3 controller and AXD digital load cell are designed to easily be connected to all kinds of PLC's with RS485, RS232 and CANbus, using SCMBus, MODbus-RTU and CANopen protocols.

## ELECTRONICS:

eNod3 controller and AXD digital load cell are dedicated to integration into industrial automated systems. These intelligent devices take control of all measurements and provide complete dosing/filling process management, unloading PLC ressources.

### Powerful functionalities:

In addition to offering 1 200 measurement/second transmission rate with an available resolution of 1 000 000 divisions, eNod3 or AXD integrate specific application software dedicated to dosing process control:

- It takes care of complete signal processing
- It includes powerful digital filters dedicated to vibration noise cancellation
- It includes functionality dedicated to mono-product dosing/filling. According to parameters sent from a PLC, it manages a two feed dosing cycle by loading or unloading
- Each device is available with 2 digital inputs and 4 outputs in order to control the process

## PC SOFTWARE:

eNodView is the software for AXD or eNod's calibration and programming:

- Graphic visualization of the signal in frequency and time
- Simulation and programming of integrated digital filters
- Full real time view of dosing cycle
- Management of all parameters for easy setting of cycle

